

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference BINU/ P30926PC	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/GB2004/002511	International filing date (day/month/year) 14/06/2004	(Earliest) Priority Date (day/month/year) 14/06/2003
Applicant  BINSTED, Ronald P.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).3. ☐ Unity of invention is lacking (see Box III).

## 4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 3

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

# INTERNATIONAL SEARCH REPORT

international application No.

PCT/GB2004/002511

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A touchpad comprising a supporting medium (3) supporting a plurality of spaced apart conductors (2) in which there is no electrical contact between the conductors, each conductor being sensitive to the proximity of a finger (1) to vary the capacitance of said conductor (2) to detect the presence of said finger (1) positioned close to that conductor, the touchpad further comprising a means (4) to concentrate electric field between conductors (2) towards the plane of the supporting medium (3).

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/002511

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F3/033 G06K11/00 H03K17/96

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F G06K H03K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 942 733 A (ALLEN ET AL) 24 August 1999 (1999-08-24) column 5, line 46 - column 8, line 50; figures 2,3 -----	1-45
X	US 4 686 332 A (GREANIAS ET AL) 11 August 1987 (1987-08-11) column 5, line 39 - line 62 column 10, line 52 - column 11, line 42; figures 8,11,12 -----	1-45
X	EP 1 251 455 A (HEWLETT-PACKARD COMPANY) 23 October 2002 (2002-10-23) paragraph '0010! - paragraph '0013!; figure 5 ----- -/--	1

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

11 May 2005

Date of mailing of the international search report

19/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040. Tx. 31 651 epo nl.  
Fax: (+31-70) 340-3016

Authorized officer

Heusler, N

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/002511

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 137 427 A (BINSTEAD ET AL) 24 October 2000 (2000-10-24) cited in the application abstract; figures -----	1
X	US 4 954 823 A (BINSTEAD ET AL) 4 September 1990 (1990-09-04) cited in the application abstract; figures 4,5 -----	1
A	US 5 548 306 A (YATES, IV ET AL) 20 August 1996 (1996-08-20) column 1, line 48 - line 54; figure 2 column 3, line 39 - line 45; figure 5 -----	1-45

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/002511

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5942733	A	24-08-1999	US 5914465 A	22-06-1999
			US 5374787 A	20-12-1994
			AU 3544495 A	27-03-1996
			CN 1164286 A ,C	05-11-1997
			DE 69527295 D1	08-08-2002
			DE 69527295 T2	17-10-2002
			EP 0777888 A1	11-06-1997
			HK 1002568 A1	18-02-2005
			JP 3526577 B2	17-05-2004
			JP 10505183 T	19-05-1998
			KR 274772 B1	15-12-2000
			US 6414671 B1	02-07-2002
			US 6028271 A	22-02-2000
			WO 9607981 A1	14-03-1996
			US 5543590 A	06-08-1996
			US 5543591 A	06-08-1996
			US 5488204 A	30-01-1996
			US 2003112228 A1	19-06-2003
			US 5889236 A	30-03-1999
			US 5880411 A	09-03-1999
			US 5861583 A	19-01-1999
			US 2004178997 A1	16-09-2004
			US 6380931 B1	30-04-2002
			US 2002093491 A1	18-07-2002
			US 5543588 A	06-08-1996
			US 5495077 A	27-02-1996
			US 6239389 B1	29-05-2001
			DE 69324067 D1	29-04-1999
			DE 69324067 T2	15-07-1999
			EP 0574213 A1	15-12-1993
			US 5648642 A	15-07-1997
			US 5841078 A	24-11-1998
US 4686332	A	11-08-1987	SG 148194 G	17-03-1995
			DE 3782860 D1	14-01-1993
			DE 3782860 T2	09-06-1993
			EP 0250931 A2	07-01-1988
			HK 139694 A	16-12-1994
			JP 1754522 C	23-04-1993
			JP 4048244 B	06-08-1992
			JP 63008818 A	14-01-1988
			US 4973605 A	27-11-1990
EP 1251455	A	23-10-2002	US 2002145594 A1	10-10-2002
			EP 1251455 A2	23-10-2002
			JP 2002312116 A	25-10-2002
			US 2004027341 A1	12-02-2004
US 6137427	A	24-10-2000	DE 69528698 D1	05-12-2002
			DE 69528698 T2	10-07-2003
			EP 1298803 A2	02-04-2003
			EP 0754370 A1	22-01-1997
			ES 2187556 T3	16-06-2003
			WO 9527334 A1	12-10-1995
			JP 9511086 T	04-11-1997
			US 5844506 A	01-12-1998
US 4954823	A	04-09-1990	AT 70675 T	15-01-1992

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/002511

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4954823	A		AU 4213485 A	15-11-1985
			DE 3584956 D1	30-01-1992
			EP 0185671 A1	02-07-1986
			WO 8504994 A1	07-11-1985
			GB 2161935 A , B	22-01-1986
			JP 2559695 B2	04-12-1996
			JP 61501953 T	04-09-1986
<hr/>				
US 5548306	A	20-08-1996	DE 69521237 D1	19-07-2001
			DE 69521237 T2	18-04-2002
			EP 0680007 A1	02-11-1995
			JP 7302155 A	14-11-1995
<hr/>				

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING  
AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2004/002511

operation should fall under this claim. The claim category is unclear.

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☒ FADED TEXT OR DRAWING
- ☒ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☒ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☒ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**